

## STOCK-POISONING PLANTS IN THE GENERAL VICINITY OF HEPNER

### Larkspur Poisoning:

Whether this is a grave source of stock loss in this area is yet to be discovered. It has come to our attention that low larkspur (*Delphinium menziesii*) is present on some of our near-by ranches. In 1937, however, it was not observed as common.

This particular plant is responsible for most of the cattle losses in the eastern part of the state. It is anywhere from 1/2 to 1 1/2 feet high with blue flowers ranging from 1 to 1 1/2 inches long. The bottom of the flower is a spur giving the flower the general appearance of a witch's hat; on the inside are yellow "stamens." The leaves come off the stem at alternate intervals and resemble those of the harmless wild geranium except that the "leaflets" (lobes) are very much narrower. The pods are found three on a stalk. The roots are fleshy and tuberous.

Although this plant is sometimes known as cow poison or poison weed the name larkspur is very generally adhered to by all who are familiar with it.

The tall larkspurs as a group are found at higher elevations and in more moist habitats than the low larkspur, usually being quite shade-enduring. Ours (the low larkspur) is found on open hillsides in relatively dry soils, and grows scatteringly—which is all to our benefit.

The danger with larkspur is with cattle. Although horses are susceptible to the poison it takes such large amounts of the plants to prove poisonous that they may be disregarded. Sheep likewise are relatively immune to this poison, being able to eat 2 to 5 times as much as the toxic dose for a cow without harmful results. In some localities larkspur is considered good sheep forage. It has been recommended in this state to first graze a larkspur-infested range with sheep in order to make the range safer for cattle. Our larkspur is considered 30% palatable to sheep. Goats also are considered immune.

Contrary to some belief the roots are not violently toxic. The seeds contain more active poison than any other part of the plant, but they are less likely to be eaten as they are quickly disseminated upon maturity. The flowers also are poisonous, but the greatest source of danger is in the leaf and stem, especially of young plants. The leafage loses much of its toxicity after seed maturity. Since, at that time, the leaves dry up and the plant becomes unattractive to cattle, there is little danger from poisoning then.

The poison is not cumulative as in loco. An animal has to eat about 3% of its weight in larkspur to be poisoned fatally; an 800-pound animal then would have to eat 25 pounds of the plant to be killed. Consequently, because of the scattered nature of our larkspur stands and because it is not a virulent poison the risk of larkspur poisoning is greater in proportion to the scarcity of good feed.

Larkspur poisoning practically always brings on constipation, and, if this is relieved, recovery often follows. At first the poisoned animal falls suddenly, the fore legs giving way. In this position the animal often supports itself, holding itself up by its head and its spreading hind legs. Or, after violent struggles it may rise to its feet showing no further symptoms, except perhaps a few more falls occurring at longer intervals, if the poisoning is not severe. In severe poisoning the weakness of the animal is quite pronounced, its falls repeated, its gait staggering and stiff. Oftentimes the animal, unable to rise, shows spasmodic movements and definitely demonstrates its loss of muscular control. The entire body may tremble, with muscular twitchings of the sides of the legs and, spasmodically, convulsive movements of the entire body. The animal is restless, sweating and slobbering profusely. There is evidence of pain in the abdomen (probably due to constipation) and, in the later stages of poisoning, bloating. Just before death nausea becomes pronounced and the animal becomes completely prostrate. Death is caused by respiratory paralysis.

If the case is not fatal recovery is rapid, the effects disappearing in two to three days. No permanent injury is left after recovery.

Other symptoms such as rapid breathing, dizziness, violent convulsions before death, and very heavy bloating after death might be added.

Since an amount of larkspur sufficient to be fatal acts very quickly treatment should be prompt. For a 1000-pound animal the following mixture, given under the skin in the region of the shoulder with a hypodermic syringe, has often proved satisfactory: physostigmine salicylate 2 grains, pilocarpine hydrochloride 4 grains and strychnine sulfate 1 grain. This combination is known as eserine and should be administered as one 40 cubic centimeter (12 drams or 4 dessert spoonfuls) dose. The dose should not be repeated. For animals weighing 500 to 600 pounds the above ingredients and dosage should be halved. If the animal shows any signs of collapse a 20 cubic centimeter hypodermic injection of whisky or 50% alcohol (not denatured) may be helpful. In all cases the animal, when down, should be so turned that the head is higher than the rest of the body so that no regurgitated material can fall into the windpipe, and should not be disturbed.

Relieving the characteristic constipation is a large factor in reducing recovery.

Bleeding, again, is to no avail.

If bloating occurs paunching may be to some advantage.

Preventive measures consist mainly in grubbing with a hazel hoe (a light, single bladed mattock) if the plants happen to occur in thick stands. This consists in cutting the main and side roots at least 6 inches below the ground. Such roots should be freed of all dirt, dried and burned. Cutting has been found to be effective, although more expensive, if 4 cuttings over a 3-year period are made. Neither one of these methods of eradication, however, would be applicable here to any extent because of the scattered nature of our larkspur stands.

Grazing larkspur-infested areas with sheep in the spring has sometimes made range safe for cattle. If this is done the sheep should be herded closely, being sure that all the larkspur is eaten or trampled into the ground. Otherwise more valuable plants will be over-cropped, leaving the larkspur, and thereby only increasing the danger for cattle poisoning.

The fencing out of larkspur-infested areas in places where animals gather in inclement weather might be feasible but, in general, with scattered stands this is not a reasonable procedure. Grubbing is really less expensive since it need only be done once.

The crude protein content of larkspur is fairly high. Because of protein hunger of cattle in early spring it is oftentimes advisable to feed them supplemental feed rich in protein content that they will not seek out larkspur to satisfy a protein craving when most other valuable plants are just getting started.

Larkspur-infested areas should be avoided by cattle until about the first of July here, after which the plant is not dangerous.

Practices such as continually salting in one place on the range should be avoided. Salting should be rotated to prevent over-utilization of salting-sites and the consequent forced grazing on deleterious plants.

The present state of this plant's abundance and distribution, however, does not seem to present much of a problem here. Perhaps it is more abundant some years than others? Or can we disregard it?

which cooperate with the university. In the past 10 years 43 Oregon State graduates have been awarded these fellowships. Those receiving them this year are Kathleen Aston and Lenore Reynolds, seniors in home economics, and Stanley Kelley, senior in engineering, all of Portland; James Edwards, Corvallis, and Robert Allgood, Dallas, seniors in secretarial science, and Lois Hartsock, Albany, 1937 graduate in secretarial science.

**Full Plate Discourages Child**  
It is best to serve small portions of food to children so that they can clear their plates without urging, says Maude Morse, extension specialist in child development and parent education at OSC. A child is often discouraged by having large amounts of food on his plate at the start.

Bill: "Let's be pals, Daddy."  
Daddy: "Sure, old top."  
Bill: "Well, how about dumping out the cod-liver oil, palsy walsy?"

**Court Proceedings For April Term**  
Be It Remembered, That County Court met in regular session at the Courthouse in Hepner, Oregon, on Wednesday, the 6th day of April, 1938, this being the regular time for holding a term of said court, when were present: Bert Johnson, Judge; George N. Peck, Commissioner; L. D. Neill, Commissioner; C. W. Barlow, Clerk; J. D. Bauman, Sheriff, and Frank C. Alfred, District Attorney.

The minutes of the March, 1938, term were read and approved.

**In the Matter of Claims:**  
Now at this time the various claims against the county were presented and the court approved, disapproved or continued them and ordered approved claims paid by the proper warrant from the proper funds.

Court orders sale of county property described as follows:  
Lots 2, 3, 4, 5, and 6, Block M to Roysse's addition to the Town of Hardman. Min. price \$20.00.

E 1/2, Sec. 30, T. 2 N., R. 27 EWM; S 1/2 SW 1/4, NE 1/4 SW 1/4, NW 1/4, Sec. 20, T. 2 N., R. 27 EWM.

W 1/2 SW 1/4, SW 1/4 NW 1/4, Sec. 30, T. 2 N., R. 27 EWM; S 1/2, Sec. 25, N 1/4, Sec. 25, T. 2 N., R. 26, EWM. Min. price \$1.00 per acre. 20% down remainder on annual payments at 6% interest on deferred payments.

Court orders dance hall license issued to American Legion Post No. 95 at Lone, Oregon.

Court orders dance hall license issued to Lexington Grange No. 726 at Lexington, Oregon.

Court orders sale of county property described as follows:  
SE 1/4 SW 1/4, Sec. 15, T. 1 S., R. 24, EWM. Minimum price \$40.00.

**Warrants Issued on General Fund, April, 1938**  
Chas. B. Cox, Postmaster, Current Expense ..... \$ 67.68  
Pac. Tel. & Tel. Co., Current Expense ..... 42.45  
Bert Johnson, Judge, General Assistance ..... 323.16  
Emp. Don. Fund Dist. No. 8, General Assistance ..... 15.00  
J. M. Spencer, Watermaster .. 5.91  
F. M. Caverhill, Watermaster .. 70.20  
H. Tamblin, Watermaster ..... 15.35  
Franklin Printing Co., Election ..... 11.13  
D. A. Wilson, Jail ..... .60  
Central Market, Jail ..... .35  
Martin T. Pratt, Jail ..... 13.20  
A. E. Burkenbine, Jail ..... 1.98  
Hanson Hughes, Jail ..... 14.29  
R. M. Rice, Public Assistance ..... 3.20  
Thomson Brothers, Emergency (Ditch Creek) ..... 10.88  
Harry Wells, Emergency (Ditch Creek) ..... 29.90  
St. Ind. Acc. Comm., Emergency ..... 3.10  
Farmers Elevator Co., Courthouse ..... .60  
Tum - A - Lum Lumber Co., Courthouse ..... 8.95  
J. F. Thornburg, Courthouse Pac. Power & Light Co., Courthouse ..... 49.18  
Case Furniture Co., Courthouse ..... 18.07  
St. Ind. Acc. Comm., Courthouse ..... 4.19  
Miller Service, Courthouse ..... 3.00  
Joseph F. Thornburg, Courthouse ..... 35.00  
J. O. Hager, Justice Court ..... 47.20

**Six OSC Students Get New York Fellowships**  
Oregon State College—Six service fellowships to New York university's graduate school of business have been awarded seniors and recent graduates of Oregon State college for the coming year. These six students will spend next year in New York, where they will combine graduate work at the university with actual part-time experience in the various large department stores

Homer Hayes, Justice Court 10.00  
W. M. Eubanks, Justice Court 10.00  
Underwood Elliott Fisher Co., Tax Collections ..... 365.00  
Hepner Gazette Times, Tax Collections ..... 25.75  
Sheriff ..... 6.50  
John W. Graham Co., Sheriff Kilham Sta. & Pr. Co., Sheriff ..... 42  
C. J. D. Bauman, Sheriff ..... 68.35  
C. J. D. Bauman, Sheriff ..... 9.80  
C. J. D. Bauman, Sheriff ..... 89.15  
St. Ind. Acc. Comm., Sheriff Hepner Gazette Times, Assessor ..... 13.45  
Chas. Peterson, Assessor ..... 10.00  
Thomas J. Wells, Assessor, Mileage ..... 60.45  
Books and Incidentals ..... 2.50  
Hepner Gazette Times, Clerk Circuit Court ..... 17.85  
C. J. D. Bauman, Circuit Court ..... 23.25  
C. J. D. Bauman, Circuit Court Hepner Gazette Times, Off. Publications ..... 16.31  
St. Dept. of Agriculture, Dist. Sealer ..... 6.15  
Frank C. Alfred, Dist. Atty. .. 10.00  
J. K. Gill Co., Superintendent Lucy E. Rodgers, Superintendent ..... 10.53  
Mileage ..... 25.00  
L. D. Neill, County Court ..... 32.75  
George N. Peck, County Court ..... 24.25  
Bert Johnson, County Court .. 3.95  
Bert Johnson, Judge, Mothers' Aid ..... 91.59  
Old Age Assistance ..... 326.37  
Blind Assistance ..... 7.87  
Mid - Columbia Typewriter Shop, Tax Collections ..... 3.50

**Warrants Issued on General Road Fund, April, 1938**  
Ralph Moore \$1.49, Isaacson Iron Works \$43.12, The Oasis \$24.46, H. & L. Corporation \$51.00, Harold Becket \$3.42, Penland Bros. Transfer Co. \$13.10, Hepner Black. & Mchy. Co. \$323.80, F. P. Leicht \$12.98, Paul Haberline \$10.00, Pac. Sta. & Prt Co. \$15.99, Gilliam & Bisbee, Estate \$34.72, I. R. Robison \$13.80, A. C. Hagg & Co., Inc., \$48.72, Ferguson Motor Co. \$31.40, Charles Vaughn \$5.90, ack Allen Supply Co. \$75.59, Omar Rietmann \$1.30, City of Hepner, Water Dept. \$1.50, Mrs. Crystal Barlow \$3.26, Claud Coats \$1.29, Tum-A-Lum Lumber Co. \$7.-80, Feenaughty Mchy. Co. \$800.00, Feenaughty Mchy. Co. \$2200.00, Beall Pipe & Tank Corp. \$821.50, Shell Oil Co. \$398.95, Frank Nixon \$49.75, Columbia Equipment Co. \$45.00, Feenaughty Mchy. Co. \$84.00, Kilham Sta. & Pr. Co. \$3573, H. Tamblin \$112.69, J. B. Adams \$13.20, Forest Adams \$6.72, Leon Chapin \$6.72, L. C. Batty \$1.35, Chas. Williams \$1.50, Pac. Tel. & Tel. Co. \$275, John W. Graham & Co. \$34, Hepner Gazette Times \$4.50, Pac. Power & Light Co. \$6.59, Braden-Bell Trac. & Equipment Co. \$170.15, Braden-Bell Trac. & Equip. Co. \$4.24, Marion Hayden \$8.98, Dale Ray \$65.78.

**Warrants Issued on Market Road Fund, April, 1938**  
H. Tamblin \$127.36, L. N. Morgan \$4.49, General Roads \$7.50, Walter Gilman \$2.99, General Roads \$207.50, Frank W. Gentry \$107.81, Jim Farley \$62.06, A. J. Chaffee \$76.33, Vernon Munkers \$67.83, Wm. Cunningham \$50.83, Harry Wells \$50.83, Ralph Marlatt \$68.88, Albert Connor \$34.89, Clair Ashbaugh \$28.40, Harold Sherer \$24.43, H. G. Peck \$8.97, St. Ind. Acc. Comm. \$25.08.

**Warrants Issued on Special Fund, April, 1938**  
Daisy B. Gillespie, Dog Fund ..\$28.00

**NOTICE OF SHERIFF'S SALE OF COUNTY PROPERTY**  
By virtue of an order of the County Court, dated the 28th day of April, 1938, I am authorized and directed to advertise and sell at public auction, as provided by law, the following described lots and parcels of land at not less than the minimum price stated:

Lot 1, North half of lot 2, Block 2, Jones Addition to the City of Hepner. Minimum price \$101.-00.  
N 1/2 NW 1/4 NE 1/4 of Section 22, Township 1 South, Range 24, East of Willamette Meridian. Minimum price \$20.00.

Therefore, I will, on the 21st day of May, 1938, at the front door of the Court House in Hepner, at the hour of 2:00 P. M., sell said property to the highest and best bidder as stated above.

C. J. D. BAUMAN,  
Sheriff of Morrow County

**NOTICE OF BOND SALE**  
NOTICE IS HEREBY GIVEN that sealed bids will be received until the hour of 7:30 P. M. on the 21st day of May, 1938, and immediately thereafter publicly opened by the Council of the Town of Lexington, Oregon, at the Council Chambers in said Town, for the Town of Lexington Water Bonds in the sum of Seven thousand dollars (\$7,000.00); said bonds bearing date of May 15, 1938, to mature serially in numerical order at the rate of \$1,000.00 on the 15th day of May in each of the years 1943 to 1949, inclusive, bearing interest at the rate of not to exceed five per cent (5%) per annum, payable semiannually; both principal and interest payable at the office of the Treasurer of the Town of Lexington, Oregon. Said bonds are additionally secured by a pledge of the net revenues of the water system.

All bids must be unconditional and shall be accompanied by a certified check for \$200.00. The bonds will not be sold for less than par and accrued interest.

The approving legal opinion of Messrs. Teal, Winfree, McCulloch, Shuler & Kelley, Portland, Oregon, will be furnished the successful bidder.

The Council reserves the right to reject any and all bids.  
ARNOLD W. SPRAUER,  
Recorder of the Town of Lexington, Oregon.

**NOTICE TO CREDITORS**  
Notice is hereby given that the undersigned has been duly appointed by the County Court of the State of Oregon for Morrow County, executrix of the last will and testament of John P. Louy, deceased. All persons having claims against the estate of the said deceased are hereby required to present the same with proper vouchers to said executrix at the law office of J. O. Turner at Hepner, Oregon, within six months from the date hereof.  
Dated and first published this 5th day of May, 1938.  
LUVISA LOUY,  
Executrix.

**Want Ads**  
Young lady wants work, experienced in housekeeping and cooking. Case rooms. Dorothy Michael.  
For Sale—Good work horses. Call this office. 9-11  
Mountain range to lease; 2000 acres at 15c an acre, plenty of water and grass; 1080 acres known as the Johnson place at 25c an acre. W. H. French, Hardman. 9tf  
Fresh cow for sale. F. S. Parker.  
Chev. coupe for sale or trade for cows. See at Lotus Robinson ranch. 7ptf  
Player piano for sale, very reasonable. Write box 292, dity. 8-9  
Gasoline, diesel and stove oil storage tanks. A stock in Pendleton at Portland prices; terms. Beall Pipe and Tank Corp., 1411 Raley St., Pendleton, Phone 1274W. 7tf  
PIANO MUST BE SOLD—We have left on our hands in this vicinity a high grade piano we will sacrifice for immediate sale. Terms \$6 a month. For full particulars address Cline Piano Co., 108 Union St., Seattle, Wash. 7-9  
For Sale—Reg. Hereford, 3-yr-old bull. Glenn Farrens, Hardman. 7-10  
Briquets for sale at Tum-A-Lum Lumber Co.  
Floor Sanding—Old floors made new. See us for newest prices. N. D. Bailey or Jeff Jones.

Henry Schwarz \$87.48, Harold Peck, \$77.74, Robert S. Wilson \$46.76, John McEntire \$1.98, H. S. Taylor \$123.47, M. V. Nolan \$107.73, Jack Stotts \$82.-22, L. N. Morgan \$125.72, Walter Gilman \$83.72, Frank W. Gentry \$32.72, Jim Farley \$13.47, A. J. Chaffee \$44.90, Vernon Munkers \$39.90, Wm. Cunningham \$29.90, Chas. Williams \$39.73, Glenn Sherer \$90.74, Ralph Marlatt \$81.59, Albert Connor \$61.08, Clair Ashbaugh \$3.36, Harold Sherer \$72.41, H. G. Peck \$71.76, Chas. H. Latourell \$2.90, Mrs T. E. Hendrick \$2.37, C. A. Kane \$150.07, J. P. O'Meara \$3.25, Shell Oil Co. \$15.75, Mrs. T. E. Hendrick \$2.58, Lexington Service Station \$4.10, St. Ind. Acc. Comm. \$67.70, C. R. Langdon \$15.00.

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Dated and first published this 5th day of May, 1938.  
LUVISA LOUY,  
Executrix.